Work Order ID 99931 *99931* Page 1 April-16-13 12:34:50 PM Item ID: 646.4001 Accept *N900040100* Setup Start **Revision ID:** Item Name: AS350 Cable Cutter **Start Date:** 4/16/13 Start Qty: 1.00 Cust Item 1D: Required Date: 4/30/13 Req'd Qty: 1.00 **Customer:** Reference: Run **Process Plan:** Approvals: Date: 13-04-16 - MLJ Tooling: Date: QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Accept Reject Work Center ID Insp. Description **Run Hours** Code Qty Number Stamp Qty **Draw Nbr Revision Nbr** 646.4000 Α 100 0.00 DOCUMENT CONTROL *100* Memo Document Control Photocopy bluefile & type labels per PPP 646.4001 110 Pick Kit 0.00 *110* Packaging 0.00 Memo Packaging 120 QC4-100% Inspect kits for completeness *120* QC Memo

Quality Control

	,					MODE OPPED NON	`^^	ILODV	AANCE / UE	DATE	DQA:	Date:	* , , ,
NCR: Ye	es / No					WORK ORDER NON-C	יוט.	VFORIN	MAINCE / OF	DATE	QA Closed:	Date:	
Work Order	•				DISPOSITION AGAINST DEPARTMENT							/PROCESS	· · · · · · · · · · · · · · · · · · ·
Work Order: Part No. NCR No.					-	Rework Scrap Use-as-is Work Order Update		Therm	Skid-tube Machining Moforming Large Fab	Crosstube Small Fab Finishing Composite	- ∤	Water Jet d. Eng. Coor. re/Packaging . Supplier	Engineering Quality Other
Root				Pes	scrip	otion of work order update	Ī	nitial		ction	Sign &		
Cause	Date	Step	Qty		0	r Non-conformance	Ch	ief Eng	Des	cription	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Waterial Setup Other Process Supplier Training Unapproved		-											
						F/	AUL	T CATE	GORY				
Landing	g Gear					General	AUL	CATE	JORT				
	Bending Centre No Cracks Crushed/O Cuffs Heat Trea Inspection Ripples in Torque W Turning S	Crimped. It In Strip in Bend Vaves in E	Tube			Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes Drawing Finish		Instruct Mainte Mislabe Misread Offset Out of C	on Incomplete ions Incomplete nance led	/Unclear	Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/	ct sissing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other

Outside Dimensions

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Wave/Twist in Tube

Folio

Work Order ID: 99931

99931

Parent Item:

646.4001

646 4001

Parent Item Name: AS350 Cable Cutter

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Oty: 1.00

Comments:	IPP REV:A 12.10.	23 NEW ISSUE	DD	VERF:JLM				x.	start Qty: 1.00		Kequire	a Qty: 1.00
Component Item ID/ Item Name	Replacement Item ID	=	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Status Issued
646.3301 *646.3301 Upper Cutter Assembly	1*	Manufactured	No		•,	· 	Each	25.0000	**			
SM	>			Location ST139A	125083	<u>Loc (</u>	7 7	Loc Code	 		- -	SIMD
646.3001 EAAA 300 Lower Cutter Assembly	1*	Manufactured	No	ST545	93247		18 18 Each	17.0000	**	7324	<u> </u>	a
Sh.P					125083	<u>Loc Q</u>	<u>Vty</u> 9 9	Loc Code			-	SHO
646.2910 *646.2910 Deflector)*	Manufactured	No	ST537	93425		8 8 Each	6.0000	**	100 100	122	M
				Location ST139A		Loc Q	<u>ety</u> 6	Loc Code				!

125083

Page 1

NCR:	Yes /	No
INCIA.	169 /	110

WORK ORDER NON-CONFORMANCE / UPDATE

DQA:	Date:	••	•	• •
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	•										QA Closed:	Dat	e:	
Work Orde	ır.					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	·	
WOIK OIGE	:1. 				+	Rework	1		Skid-tube	Crosstube		Water Jet		Engineering
Part N	lo.					Scrap	1 1	i	Machining	Small Fab	Pro	d. Eng. Coor.		Quality
					i	Use-as-is	1		noforming	Finishing	Rec/Sto	e/Packaging		Other
NCR N	lo.					Work Order Update		/	Large Fab	Composite		Supplier		
Root						ption of work order update	1	nitial		tion	Sign &			
Cause	Date	Step	Qty		(or Non-conformance	Ch	ief Eng	Desci	ription	Date	Verification	1	QC Inspector
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		·			<u> </u>	General	AUL	T CATE	GURT					
Landir	ng Gear Bending					Bend	Γ-	Grain			Ovalized	[Pressure/Forced
	Centre N	at Canca	ntric to	0/5	-	BOM/Route	-	Hardwa	uro.		Over/Under	tolerance	\rightarrow	Temperature/Cure
	Cracks	ot conce	ntric to	0/3	-	Broken/Damaged		4	ion Incomplete	-	Part Incorre	ŀ	-	Weld
}	Crushed/	Crimpod		ì	 	Burrs	-	ł '	ions Incomplete/	Unclear	Part Lost/M	· · · · · · · · · · · · · · · · · · ·	-	Wrong Stock Pulled
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ŀ	Ripples in					Drill Holes	-	Offset		L	J	~ (
	1				1		1							

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish Folio

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April-16-13 12.34:54 PM

Work Order 1D: 99931

99931

Parent Item:

646.4001

646 4001

Parent Item Name:	AS350 Cable Cutter	^(646 4()()1*			_		
						Start Date Start Qty		Required Date: 4/30/13 Required Qty: 1.00
646.3810	Manufac	tured No		Each	8.0000		2	
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			Location	Loc Oty	Loc Cod	<u>e</u>		
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646.3510	Manufac	tured No	93300	8				_ \ _
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<	SMP		Location	Loc Qty	Loc Cod	<u>e</u>		
	•		ST139B	3				
/ 646.3511	N 4 C		125083	3				
	Manufact ⊢ ★	tured No		Each	2.0000		1 ~	
>*646 3511	· ·					**	_/07	114
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646,3513	Manufact	ured No		Each	24.0000		I	
646-3513) 					**		
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Shop Packet Print

Page 2

									DQA:	Date:	****
NCR: Y	es / No				WORK ORDER NON-O	CON	IFORN	MANCE / UPDATE	QA Closed:	Date:	
					DISPOSITION			AGAINST D	EPARTMENT	/PROCESS	
Work Order: Part No. NCR No.					Rework Scrap Use-as-is Work Order Update		I Therm	Skid-tube Crosstube Machining Small Fab noforming Finishing Large Fab Composite		Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root	· · · · · · · · · · · · · · · · · · ·	Ţ ·	T	Des	cription of work order update	l Ir	nitial	Action	Sign &		
Cause	Date	Step	Qty		or Non-conformance	Chi	ef.Eng	Description	Date	Verification	QC Inspector
ooc/Data quip/Tooling Operator Material Setup Other Process Supplier Fraining Unapproved											
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Torque Waves in Extrusion Drawing Out of Calibrati					Calibration		<u></u>				

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Finish

Folio

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April-16-13 12:34:54 PM

Work Order ID: 99931

Parent Item:

646,4001

Parent Item Name: AS350 Cable Cutter

99931 *646 4001*

> **Start Date: 4/16/13** Start Qty: 1.00

> > **

Required Date: 4/30/13

Required Qty: 1.00

NAS1149F0332P

Purchased

No

Purchased No

Location Loc Qty Loc Code GA 182 122063 182 ST294 158 122063 158 ST295 3 123352 3 st510 8367 123900 8367 Each

4,780.000

**

8.710.000

Each

123900

MS21042L3

Location	Loc Qty	Loc Code
FP001	3	
122141	3	
GA	119	
122452		
ST314	268	
117885	32	
119017	55	
119075	138	
123265	43	
ST506	4390	

974

3416

123900

			ľ							DQA:	Date	·
es / No					WORK ORDER NON-C	ON	NFORM	MANCE / UPI	DATE	QA Closed:	Date	:
r·	 				DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Work Order: Part No. NCR No.					Rework Scrap Use-as-is Work Order Update		Therm	Machining noforming	Crosstube Small Fab Finishing Composite	-}	- }	Engineering Quality Other
			De	scri	otion of work order update	1	nitial	Act	tion	Sign &		
Date	Step	Qty		c	or Non-conformance	Ch	ief Eng	Descr	ription	Date	Verification	QC Inspector
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						AUL	T CATE	GORY				
Bending Centre No Cracks Crushed/ Cuffs Heat Trea Inspection Ripples in	Crimped it n Strip in Bend	Tube			Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes		Inspecti Instruct Mainte Mislabe Misread Offset	on Incomplete ions Incomplete/l enance eled	Unclear	Part Incorre Part Lost/M Part Moved Positioned V	ct issing Wrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
	g Gear Bending Centre No Cracks Crushed/ Cuffs Heat Trea Inspection Ripples in	ng Gear Bending Centre Not Concel Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Ripples in Bend	r: O. Date Step Qty Bending Centre Not Concentric to Cracks Crushed/Crimped. Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend	r: O. Date Step Qty Date Step Qty Be Date Step Qty Cracks Crushed/Crimped. Cuffs Heat Treat Inspection Strip in Tube	r:	DISPOSITION Rework Scrap Use-as-is Work Order Update Date Step Qty Description of work order update or Non-conformance Fig Gear Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Disposition Rework Scrap Use-as-is Work Order Update or Non-conformance Fig Gear General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes	TELEMENT SCRAP Use-as-is Work Order Update Or Non-conformance Chapter Step Oty Oty Or Non-conformance Chapter Step Oty	DISPOSITION Rework Scrap Use-as-is Work Order Update Date Step Qty Description of work order update or Non-conformance FAULT CATE General Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend DISPOSITION Rework Scrap Use-as-is Work Order update or Non-conformance FAULT CATE General Bend Grain Hardwa Inspection Strip in Tube Countersink Mislabe Cut Too Short Misread Offset	DISPOSITION Rework Scrap Use-as-is Work Order Update Step Qty Part Caregory Gear General Bend Grain Bom/Route Broken/Damaged Instructions Incomplete Inspection Intomplete Intomp	DISPOSITION Rework Scrap Use-as-is Work Order Update Use-as-is Work Order Update Initial Chief Eng Composite Date Step Qty Description of work order update or Non-conformance Chief Eng Description FAULT CATEGORY Gear General Bending Centre Not Concentric to O/S Cracks Cracks Crushed/Crimped. Cuffs Large Fab Crosstube Machining Small Fab Finishing Composite FAULT CATEGORY General Bend Grain Hardware Instructions Incomplete In	WORK ORDER NON-CONFORMANCE / UPDATE QA Closed: DISPOSITION Rework Scrap Use-as-is Work Order Update O. Date Step Qty Description of work order update or Non-conformance Or Non-confo	WORK ORDER NON-CONFORMANCE / UPDATE QA Closed: Date DISPOSITION Rework Scrap Use-as-is Work Order Update Or Non-conformance Date Step Qty Date Verification Ovalized Dover/Under tolerance Date Over/Under tolerance Date Over/Under tolerance Date Step Qty

Out of Sequence

Outside Dimensions

Date:

Turning Sequence

Wave/Twist in Tube

Finish Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Required Date: 4/30/13

Start Date: 4/16/13

Picklist Print

April-16-13 12:34:54 PM

Work Order ID: 99931

646,4001

Parent Item Name: AS350 Cable Cutter

Parent Item:

646 4001

646 3110					:	Start Qty:	1.00	Require	d Qty: 1.00
*646.3110 *646-3110*	Manufactured	No		Each	6.0000	**	1996	68	
5h6 646.3710 *646-3710*	Manufactured	No	Location ST139A 125083	Loc Oty 6 6 Each	Loc Code 22.0000	**			
Doubler Sm 646.3210 *646.3210* Support	Manufactured	No	Location ST425 97175	Loc Oty 22 22 Each	Loc Code 5.0000		97/10		
646.3713 *646.3713* Gusset	Manufactured	No	Location ST538 93488	Loc Oty 5 5 Each	Loc Code 7.0000	**	9 3488		le 13/0/23
SW			Location ST139A	Loc Qty 7	Lóc Code				

						1								
												DQA:	Date	<u> </u>
NCR:	Yes	/ No					WORK ORDER NON-C	ON	IFORN	MANCE / UP	DATE	QA Closed:	Date	
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Part NCR	No.				e,	Rework Skid-tube Crosstube Scrap Machining Small Fab Use-as-is Thermoforming Finishing Composite							Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root						escri	ption of work order update	1	nitial	Act	tion	Sign &		
Cause		Date	Step	Qty			or Non-conformance	Ch	ief Eng	Desc	ription	Date	Verification	QC Inspector
oc/Data quip/Tooling perator Material etup Other rocess upplier raining					**									
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		Wave/Tw	ist in Tub	oe .	- 1	Г	Folio Outside Dimensions							

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April-16-13 12.34:54 PM

Work Order ID: 99931

Parent Item:

646,4001

Parent Item Name: AS350 Cable Cutter

99931

646 4001

Start Date: 4/16/13

Start Qty: 1.00

108.0000

Loc Code

Required Date: 4/30/13

Required Qty: 1.00

MS24694-S51

Purchased

Purchased

Purchased

No

No

No

Location Loc Qty ST303 108 116805 123741 107

Each 95.0000

Each

**



Locatio	<u>n</u>	Loc Oty	Loc Code
ST351		45	
	104746	15	
	120910	. 30	
ST512		50	
	123759	50	
		Each	453.0000
			**

Location	Loc Qty	Loc Code
ST350	318	
120308	80	
122814	38	
124858	200	
ST512	135	
120770	134	



DQA:

Date:

NCR:	es/	/ No					WORK ORDER NON-	COI	NFORM	MANCE / UP	DATE			i e
						<u> </u>		,				QA Closed:	Date:	
Nork Orde	ır.						DISPOSITION				AGAINST DE	PARTMENT	PROCESS	
WOIK OIG						╁	Rework	ا ٦		Skid-tube	Crosstube		Water Jet	Engineering
Part N	lo.					İ	Scrap	7	Ī	Machining	Small Fab	Pro	d. Eng. Coor.	Quality
			*****			†	Use-as-is	7 1		noforming	Finishing	Rec/Stor	e/Packaging	Other
NCR N	۱o.				#		Work Order Update			Large Fab	Composite]	Supplier	
					·				<u> </u>			I a: a		
Root)esci	ription of work order update	- 1	nitial		ction	Sign &	V:fibi	OC Incorporation
Cause		Date	Step	Qty		<u> </u>	or Non-conformance	Ch	ief Eng	Desc	cription	Date	Verification	QC Inspector
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Landi	ng (Gear					General				W			
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		Cracks				Γ	Broken/Damaged		Inspecti	ion Incomplete		Part Incorre	ct	Weld
		Crushed/0	Crimped.				Burrs		Instruct	ions Incomplete,	/Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
		Cuffs			- 1		Contamination		Mainte	enance		Part Moved		
		Heat Trea	it			Γ	Countersink		Mislabe	eled		Positioned V	Vrong	
		Inspection	n Strip in	Tube			Cut Too Short		Misread	t		Power Loss/	Surge	Other
		Ripples in	Bend				Drill Holes		Offset		_			
;		Torque W	aves in E	xtrusio	n		Drawing		Out of (Calibration				
		Turning S	equence				Finish		Out of S	Sequence				
		Wave/Tw	ist in Tub	e		ſ	Folio		Outside	Dimensions				

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April-16-13 12.34:54 PM

Work Order ID: 99931

Parent Item:

646.4001

99931

Parent Item Name: AS350 Cable Cutter

646 4001

CR3213-5-3

Purchased No

Purchased

Manufactured

Manufactured

No

No

No

Location ST329

Location

ST336

Location

ST139B

Location

ST139B

123785

125083

125083

Loc Qty

Loc Oty

300

300

Each

Each

741 123425

741 Each

2.0000

Loc Code

Loc Code

741.0000

**

**

Loc Code

Loc Oty 2 2

Each 2.0000

Loc Oty Loc Code 2

2

Start Date: 4/16/13 Start Qty: 1.00

300.0000 **

**

Required Date: 4/30/13 Required Qty: 1.00

13-04-30

NCR: Y	'es	/ No					WORK ORDER NON-C	O	NFOR	MANCE / UPDATE			
						<u> </u>					QA Closed:	Date:	
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Part N	- ا lo.						Rework Scrap		1	Skid-tube Crosstube Machining Small Fab		Water Jet d. Eng. Coor. e/Packaging	Engineering Quality Other
NCR N	۱o. ₋				**		Use-as-is Work Order Update		mem	Large Fab Composite	Nec/stor	Supplier	Journal
Root		Date	Cton	0+1/	D	ľ	ption of work order update or Non-conformance	ł	nitial ief Eng	Action Description	Sign & Date	Verification	QC Inspector
Cause		Date	Step	Qty	 	 	of Non-comormance	CII	ilei Liig	Description	Date	Vermedion	Qe mspector
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napproved													
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Landi	ng G	iear					General			_		_	·
		Bending		·			Bend		Grain	<u> </u>	Ovalized	<u> </u>	Pressure/Forced
		Centre No	ot Concer	ntric to	o/s	L	BOM/Route		Hardwa	are	Over/Under	tolerance	Temperature/Cure
		Cracks			- [Broken/Damaged		inspect	ion Incomplete	Part Incorre	ct	Weld
		Crushed/0	Crimped.		ı		Burrs		Instruct	tions Incomplete/Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
		Cuffs			- 1		Contamination		Mainte	enance	Part Moved		
		Heat Trea	it				Countersink		Mislabe	eled	Positioned V	Vrong	-
		Inspection	n Strip in	Tube			Cut Too Short		Misread	d	Power Loss/	Surge	Other
		Ripples in	Bend		- 1		Drill Holes		Offset				
		Torque W	aves in E	Extrusio	n		Drawing		Out of	Calibration			

Out of Sequence
Outside Dimensions

Date:

DQA:

Turning Sequence

Wave/Twist in Tube

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Order ID: 99931

646,4001

Parent Item Name: AS350 Cable Cutter

Parent Item:

99931

646 4001

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Qty: 1.00

646.3811

Radius Block

Manufactured

No

Each 29.0000

**

**

Purchased

Purchased

Location ST139A 125083 93224

124296

Loc Oty 29 9 20 Each

Loc Oty

438.0000

Loc Code

125083

No

ST351 61 117441 34 121166 13 122993 10 123831 4 ST512 77 122814 77

Loc Code 300 300 Each 92.0000

Location ST303

Location

ST350

124296

Loc Qty 92 Loc Code

	*				1									
											DQA:	Date	e:	
NCR: Ye	es / No					WORK ORDER NON-C	CON	NFORM	MANCE / UPI	DATE	QA Closed:	Date	e:	
Work Order		·				DISPOSITION				AGAINST DE	PARTMENT	PROCESS		
Part No	D			b		Rework Scrap Use-as-is Work Order Update		I Thern	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite		Water Jet d. Eng. Coor. e/Packaging Supplier	Engineering Quality Other	
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Root Cause	Date	Step	Qty			or Non-conformance	1	ief Eng		ription	Date	Verification	QC Inspect	tor
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved														
						F.	AUL	T CATE	GORY				· · · · · · · · · · · · · · · · · · ·	
Landing	g Gear Bending Centre No Cracks Crushed/O Cuffs Heat Trea Inspection Ripples in Torque W Turning So	Crimped it n Strip in Bend Vaves in E	Tube	٠		General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes Drawing Finish		Instruct Mainte Mislabe Misread Offset Out of (ion Incomplete ions Incomplete/Uenance eled	Jnclear	Ovalized Over/Under Part Incorre Part Lost/M Part Moved Positioned V Power Loss/	ct issing [Pressure/Force Temperature/C Weld Wrong Stock Pu Other	Cure
	Wave/Tw	ist in Tul	oe e	1		Folio		Outside	Dimensions					

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Work Order ID: 99931

99931

Parent Item:

646.3610

646.4001

646 4001

Parent Item Name: AS350 Cable Cutter

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Qty: 1.00

**

Manufactured

Manufactured

Purchased

Each 18.0000

Location 125083

No

No

125083 ST139A 93434

Loc Qty

2.0000

Loc Code

125083

646.3714

Location ST139A

93175

Loc Qty 2 2

Each

Each

Loc Code

1,756.000

**

No

Location ST336 105433 124089 Loc Oty 1756 866 890

Loc Code

Manufactured

9.0000 **

Gusset Bracket

5M

Location ST139B 93185 Loc Qty 9

Loc Code

N/CD:	Voc	1	Ma
NCR:	Yes	/	No

DQA: _____ Date: ____

NCR: Y	es / No					WORK ORDER NON-C	CON	IFORN	MANCE / UP	DATE	QA Closed:	Date	e .
						DISPOSITION				AGAINST D	EPARTMENT,	<u></u>	
Work Orde	r:				<u>[</u>	Pause etc.	,			Crosstube	7	Water Jet	Engineering
Part N						Rework Scrap	1 1		Skid-tube Machining	Small Fab	Pro	d. Eng. Coor.	Quality
Partin	0			·*,	+	Use-as-is	1		noforming	Finishing		re/Packaging	Other
NCR N	0.					Work Order Update	<u> </u>		Large Fab	Composite]	Supplier	
······································			-	1				1			l c: 0	<u> </u>	
Root		_		D	1	ption of work order update	1	nitial		tion ·	Sign &	Mauifiantian	OCInspostor
Cause	Date	Step	Qty	ļ	<u> </u>	or Non-conformance	Chi	ef Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data				· ·	1							ļ	
Equip/Tooling	_				Ī								
Operator		1			l								
Material				:									
Setup	_				l								
Other	_		1										
Process	4			1	l		1						
Supplier													
Training						·							
Unapproved		1	<u> </u>	*		-	A 1 11.	T CATE	CORV			1	
							AUL	CATE	GURT		***		
Landin	ng Gear				Г	General Bend		Grain			Ovalized	Г	Pressure/Forced
1	Bending	-+ C		ر درد	-	BOM/Route	\vdash	Hardwa	**	<u> </u>	Over/Under	tolerance	Temperature/Cure
	Centre N	ot Conce	ntric to	0/3	-	Broken/Damaged			on Incomplete	<u> </u>	Part Incorre	-	Weld
-	Cracks	/C:			-	Burrs	_		ions Incomplete/	(Unclose	Part Lost/M	-	Wrong Stock Pulled
ŀ	Crushed/ Cuffs	Crimpea.		*	-	Contamination		Mainte	•	- L	Part Moved	1331118	Wrong Stock runeu
	_				\vdash	Countersink	\vdash	Mislabe		F	Positioned V	Mrong	
}	Heat Trea		Tuba	1	\vdash	Cut Too Short	\vdash	Misreac		-	Power Loss/		Other
	Inspectio		rupe		-	Drill Holes		Offset		L		Jui 86	Louici
<u> </u>	Ripples in			_		╡			Calibration				
-	Torque W			11	-	Drawing	\vdash						
-	Turning S				-	Finish	-		Sequence				<u> </u>
	Wave/Tw	vist in Tul	e ec	- 1	- 1	Folio	1 1	outside	Dimensions				

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

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Work Order ID: 99931

Parent Item:

646.4001

Parent Item Name: AS350 Cable Cutter

99931

646 4001

Location

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Qty: 1.00

646.3813

5m>

MS20470AD5-7 470AD5-7*

Purchased No

No

No

Purchased

Manufactured

Each 268.0000

**

Loc Qtv Loc Code ST350 268 123831 7 124221 200 124552 61 Each 5.0000 **

Location	Loc Qty	Loc Code
ST139d	5	
125083	5	
	Each	2,194.000
		**

125083	
3	

	No.	٠,٠	' /	•
4S210	47-31	1		

Purchased No Location Loc Oty Loc Code Mezz 1384 2655 799 3011 585 ST336 810 123425 810 Each 445.0000

**

Loc Code

13-04-26

Location Loc Qty ST316 445 123268 75 123301 50 123522 320

NCR: Y	es / No					WORK ORDER NON-O	100	VFORM	MANCE / UP	PDATE	OA Charact	D-4		
					-	<u> </u>		i			QA Closed:	Dat	:e:	
Work Orde						DISPOSITION				AGAINST DE	PARTMENT	/PROCESS		
Work Orde	I				†	Rework	٦]		Skid-tube	Crosstube	7	Water Jet		Engineering
Part N	n					Scrap	1 1	i e	Machining	Small Fab	Pro	d. Eng. Coor.	\dashv	Quality
, 41111	··			_	t	Use-as-is	1		noforming	Finishing		e/Packaging		Other
NCR N	0.			ē.	1	Work Order Update	1		Large Fab	Composite	j '	Supplier		
												_		
Root	,			D	ı	ption of work order update	1	nitial		ction	Sign &			. *
Cause	Date	Step	Qty		(or Non-conformance	Ch	ief Eng	Desc	cription	Date	Verification		QC Inspector
Doc/Data					}									
Equip/Tooling												٠.		
Operator													'	
Material											· ·		-	
Setup									' 					
Other														
Process	_												ĺ	
Supplier		i											ł	
Training				*										
Unapproved		İ												
				!			AUL	T CATE	GORY					
Landin	g Gear			ł		General		,		_	7	r		
	Bending				L	Bend	<u></u>	Grain			Ovalized	ļ		Pressure/Forced
ļ	Centre No	ot Conce	ntric to	O/S		BOM/Route	<u> </u>	Hardwa			Over/Under	+		Temperature/Cure
-	Cracks					Broken/Damaged		1	on Incomplete	<u>_</u>	Part Incorre	- t	$\overline{}$	Weld
	Crushed/	Crimped.		ł		Burrs		1	ions Incomplete,	/Unclear	Part Lost/Mi	issing [Wrong Stock Pulled
	Cuffs		ş		L	Contamination	<u> </u>	Mainte	nance		Part Moved			
	Heat Trea	at	•		\perp	Countersink	_	Mislabe	led		Positioned V	Ţ		
	Inspection	n Strip in	Tube		L	Cut Too Short		Misread	I		Power Loss/	Surge		Other
	Ripples in	Bend				Drill Holes		Offset						
	Torque W	/aves in E	xtrusio	n	L	Drawing	L	Out of 0	Calibration					-
	Turning S	equence				Finish		Out of S	equence					
	Wave/Tw	ist in Tul	oe e			Folio		Outside	Dimensions					

DQA:_

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Work Order ID: 99931

Parent Item:

646.4001

Parent Item Name: AS350 Cable Cutter

99931 *646 4001*

No

No

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Qty: 1.00

740.0000

Loc Code

**

Purchased Rivet. Cherry

AN3-5A

Purchased

Location Loc Qty ST327 740 106578 100 123785 240 124231 200 124259 200

Each 1,103.000 **

Each

3B

Location	<u>n</u>	Loc Oty	Loc Code
FP001		86	
	122800	86	
GA		120	
	117423	120	
ST350		22	
	120187	22	
ST512		875	
	122416	75	
	124561	800	

Each

.646.3715

Manufactured

Location Loc Oty Loc Code ST139B 12 12

93338

12.0000

**

/	No
	/

DQA: Date:

NCR: \	'es	/ No					WORK ORDER NON-C	ON	NFORM	MANCE / UP	DATE	QA Closed:	Date:	
Nork Orde	\r·			`		T	DISPOSITION				AGAINST DI	PARTMENT/	PROCESS	
WOLK OTGE	: r .					†	Rework]	Skid-tube Crosstube			Water Jet Engineering		
Part N	۱o.	······				1	Scrap			Machining	Small Fab	-	d. Eng. Coor.	Quality
NCR N	10.				•	<u> </u> 	Use-as-is Work Order Update			noforming Large Fab	Finishing Composite	Rec/Stor	e/Packaging Supplier	Other
Root					D	escri	iption of work order update		nitial		tion	Sign &		
Cause		Date	Step	Qty			or Non-conformance	Ch	ief Eng	Desc	cription	Date	Verification	QC Inspector
oc/Data														
quip/Tooling					ļ	ĺ							٠.	
perator														
1aterial			ļ		ž,									
etup														
ther														,
rocess	\dashv		·					l						
upplier														
raining Inapproved														
паррточец	لـــا		·	L	<u> </u>		F	AUL	T CATE	GORY				L
Landi	ng G	iear					General							
		Bending			Ì		Bend		Grain			Ovalized		Pressure/Forced
		Centre No	ot Concer	ntric to	o/s		BOM/Route		Hardwa	re		Over/Under	tolerance	Temperature/Cure
		Cracks					Broken/Damaged		Inspecti	on Incomplete		Part Incorred	ct	Weld
		Crushed/0	Crimped,		,		Burrs		Instruct	ions Incomplete/	/Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs Contamination			Contamination		Mainte	nance		Part Moved	·				
		Heat Trea	t		ł		Countersink		Mislabe	led		Positioned V	Vrong	_
		Inspection	n Strip in	Tube			Cut Too Short		Misread	·		Power Loss/	Surge	Other
		Ripples in	Bend				Drill Holes		Offset					
		Torque W	aves in E	xtrusio	n		Drawing	Out of Calibration						
		Turning S	equence		1		Finish	Out of Sequence						
	Wave/Twist in Tube					Folio		Outside Dimensions						

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April-16-13 12:34:54 PM

Work Order ID: 99931

Parent Item:

MS27039-1-12

646.4001

Parent Item Name: AS350 Cable Cutter

99931

646 4001

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Qty: 1.00

169.0000

646:3716

Gauge Bracket

MS20426AD5-7

Purchased

Manufactured

Purchased

Purchased

No

No

No

Location

Mezz

Location

125083

Location

ST334

Location

ST303

100993

125083

101340

123900

124859

169 169

Loc Qty

Each

Each 4.0000

**

Loc Code

Loc Oty Loc Code

4 Each

813.0000

**

Loc Code

813 813 Each

76

75

Loc Oty

Loc Oty

76.0000

**

Loc Code

100993

					į.										
											•	•			
										DQA:	Date:				
NCR: Y	es / No				WORK ORDER NON-	CON	NFORN	ANCE / UP	DATE	•					
· · ·										QA Closed:	Date:				
Mark Orda					DISPOSITION				AGAINST DE	EPARTMENT,	PROCESS				
Work Orde	Τ				Rework	7	Skid-tube Crosstube Water Jet Engineering								
Part N	lo ·			,	Scrap	Machining Small Fab Prod. Eng. Coor. Quality									
, are re					Use-as-is	Thermoforming Finishing Rec/Store/Packaging Other									
NCR N	lo.			,	Work Order Update	Large Fab Composite Supplier									
					†										
Root				De	escription of work order update	T	nitial	Act	tion	Sign &					
Cause	Date	Step	Qty		or Non-conformance	Ch	ief Eng	Desc	ription	Date	Verification	QC Inspector			
Doc/Data															
quip/Tooling															
Operator															
Material															
Setup				1 1							·				
Other															
Process															
Supplier															
Fraining		l													
Jnapproved			<u> </u>	<u> </u>						<u> </u>					
						AUL	T CATE	GORY							
Landir r	ng Gear			ł	General		ا ما		_	٦	<u></u>	la (5)			
.	Bending				Bend		Grain			Ovalized	—	Pressure/Forced			
-	Centre Not Concentric to O/S				BOM/Route		Hardwa		<u> </u>	Over/Under		Temperature/Cure			
}	Cracks				Broken/Damaged	H	i '	on Incomplete	⊢	Part Incorre		Weld			
]	Crushed/	'Crimped	-		Burrs	Н	1	ions Incomplete/	Unclear			Wrong Stock Pulled			
	Cuffs			- 1	Contamination		Mainte		<u> </u>	Part Moved					
	Heat Tre				Countersink		Mislabe		<u> </u>	Positioned V		Jour			
	Inspectio	n Strip in	า Tube		Cut Too Short	J i	Misread	1	1	Power Loss/	Surge	Other			

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

Drill Holes

Drawing Finish

Folio

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April-16-13 12:34:54 PM

Work Order ID: 99931 -

Parent Item:

M827039-1-21

646.4001

Parent Item Name: AS350 Cable Cutter

99931

646 4001

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Oty: 1.00

**

Purchased

Purchased

No

No

Location Loc Qty ST306 43 115935 43 ST506 300 124326 300

Each 478.0000

Loc Code

Each

**

**

**

343.0000

Loc Code

115935

MS27039-1-19

S97039-1-19*

646.3717

Purchased No 124326

Location

st510

ST506

478 478 Each

Loc Qty

848,0000

Manufactured

Location Loc Qty Loc Code ST306 102 122814 . 2 123522 100

746 124326

746 Each 2.0000 124326

Location ST139B

125083

Loc Qty 2 Loc Code

NCR: Yes / No							WORK ORDER NON-CONFORMANCE / UPDATE QA Closed: Date:								
			<u>.</u>	. 	<u> </u>		DISPOSITION				AGAINST DE				
Nork Orde	er:					4	8 a a l	,		ماريم ادنياي	Crosstube	7	Water Jet] Engineering	
Part N	10.						Rework Scrap		Machining Small Fa			-	d. Eng. Coor.	Engineering Quality	
NCR I	lo.	.	Use-as-is Thermoforming Finishing Work Order Update Large Fab Composite						Rec/Store/Packaging Other Supplier						
Root					De	scri	ption of work order update		nitial	Act	ion	Sign &			
Cause		Date	Step	Qty		1	or Non-conformance		ief Eng	Descr	ription	Date	Verification	QC Inspector	
oc/Data				Α-,						****					
quip/Tooling						1	•								
perator						ł									
naterial					<i>ķ</i>										
etup									i						
Other															
rocess														ŀ	
upplier								Ì							
raining													•]	
napproved					ş										
					Ī		F	AUL	T CATE	GORY					
Landi	ng (Gear					General	-							
		Bending			- 1		Bend		Grain			Ovalized		Pressure/Forced	
		Centre No	t Concer	ntric to	o/s		BOM/Route		Hardwa	re		Over/Under	tolerance	Temperature/Cure	
		Cracks			- 1		Broken/Damaged		Inspecti	on Incomplete		Part Incorred	ct	Weld	
		Crushed/C	Crimped.		- 1		Burrs		Instruct	ions Incomplete/l	Jnclear	Part Lost/Mi	ssing	Wrong Stock Pulled	
		Cuffs					Contamination		Mainte	nance		Part Moved			
		Heat Treat	t	e			Countersink		Mislabe	led		Positioned V	Vrong	_	
		Inspection	Strip in	Tube			Cut Too Short		Misread	i		Power Loss/	Surge	Other	
		Ripples in	Bend				Drill Holes		Offset						
		Torque W	aves in E	xtrusio	1		Drawing		Out of 0	Calibration					
		Turning Se	equence				Finish		Out of S	Sequence					
	Wave/Twist in Tube					Folio		Outside	Dimensions			·			

DQA:

Date:

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Work Order 1D: \ 99931

Parent Item:

646.3719

MS27039-1-10

646,4001

Parent Item Name: AS350 Cable Cutter

99931 *646 4001*

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Qty: 1.00

646.3718

Manufactured

Each 45.0000

**

Manufactured

Location Loc Oty ST139A 125083 ST522 38 93365 38 Each

24.0000

Loc Code

1493365

Purchased

No

Location Loc Qty Loc Code ST139B 24 125083 24 Each 321.0000

Location Loc Qty Loc Code GA 100 120449 100 ST305 101 122815 124859 100 ST308 18 123522 18 ST506 102

102

124326

						1								•	
NCR:	Yes	/ No	,				WORK ORDER NON-C	ON	NFORM	MANCE / UPD	ATE	(DQA:	Date:	
							DISPOSITION				AGAINST		ARTMENT/		
Nork Ord	er:					1									
Part	Vo.						Rework Scrap Use-as-is		Skid-tube Crosstube Machining Small Fab Thermoforming Finishing					Water Jet d. Eng. Coor.	Engineering Quality Other
NCR No.				<u> </u>	Work Order Update Large Fab Composite					Rec/Store/Packaging Other Supplier					
Root					D	scri	ption of work order update		nitial	Acti	on		Sign &		
Cause		Date	Step	Qty		,	or Non-conformance	Ch	ief Eng	Descri	ption		Date	Verification	QC Inspector
oc/Data quip/Tooling perator														٠.	
Material etup					*										
other rocess upplier	-												·		
raining															
Inapproved					`										
							F	AUL	T CATE	GORY					· · _
Land	ng (Gear					General								-
	匚	Bending			ı		Bend		Grain	,		\vdash	Ovalized		Pressure/Forced
		Centre No	ot Concei	ntric to	O/S		BOM/Route		Hardwa			\vdash	Over/Under	<u> </u>	Temperature/Cure
	L	Cracks			I		Broken/Damaged		1	on Incomplete		-	Part Incorred		Weld
	<u> </u>	Crushed/	Crimped.		- 1	\perp	Burrs		ł	ions Incomplete/U	nclear	-	Part Lost/Mi	ssing	Wrong Stock Pulled
		Cuffs			1	<u> </u>	Contamination	<u> </u>	Mainte				Part Moved	.,	
	<u> </u>	Heat Trea				-	Countersink	_	Mislabe			-	Positioned V	f	7045
		Inspection		Tube		-	Cut Too Short	\vdash	Misread	1		الـــا	Power Loss/	Surge	Other
		Ripples in			- 1	\vdash	Drill Holes	-	Offset	5 - 11 h	4	-			
	<u> </u>	Torque W			n	-	Drawing	-	1	Calibration		-			•
	<u> </u>	Turning S				<u> </u>	Finish	<u> </u>	1	Sequence		-			
	Wave/Twist in Tube				- 1	Folio	1	 Outside	Dimensions						

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

April-16-13 12:34:54 PM

Work Order ID: 99931

Parent Item:

646.4001

Parent Item Name: AS350 Cable Cutter

99931 *646 4001*

No

No

No

Start Date: 4/16/13

Each

Required Date: 4/30/13

Start Qty: 1.00

Required Qty: 1.00

672.0000

**

AN3-11A

600.0990

Sealant (One 6 oz Semkit)

Magnabond 6398 Part B (One 4 oz can)

Purchased

Purchased No

Purchased

Purchased

Location ST351 123525

ST512 115457

123352 123759

125051

125051

Each

Loc Qty

9.0000

Loc Code

**

Location Loc Qty ST125051 Each

9.0000

Loc Code

**

Loc Code

9.0000

**

12505

Location ST

Location

ST

Loc Oty

Loc Oty

Each

Loc Code

NCR:	Yes	1	No
NCK:	res	/	INO

DQA: _____Date: ____

NCR:	/es	/ No					WORK ORDER NON-C	O	NFORM	AANCE / UPL	DATE	QA Closed:	Date:	
				31			DISPOSITION				AGAINST DE		-	
Nork Orde	er:					1		,				A	_	, _
Part I	No.						Rework Scrap			Skid-tube Machining	Crosstube Small Fab	Prod	Water Jet d. Eng. Coor.	Engineering Quality
NCR I					۳		Use-as-is Work Order Update			oforming Large Fab	Finishing Composite	Rec/Stor	e/Packaging Supplier	Other
Root					De	scri	cription of work order update			Act	ion	Sign &		
Cause		Date	Step	Qty		(or Non-conformance	Ch	ief Eng	Descr	iption	Date	Verification	QC Inspector
oc/Data														
quip/Tooling								ĺ					* .	
perator														
Material					1 1				•					
etup)ther					*									
rocess														
upplier								1						
raining														
Inapproved			:											
							F	AUL	T CATE	GORY				
Landi	ng (Gear			1		General				_	,		-
		Bending					Bend		Grain		<u> </u>	Ovalized		Pressure/Forced
		Centre No	ot Concer	ntric to	O/S	_	BOM/Route		Hardwa			Over/Under	· -	Temperature/Cure
		Cracks			- 1		Broken/Damaged		i .	on Incomplete	<u> </u>	Part Incorred	<u> </u>	Weld
		Crushed/0	Crimped.			L	Burrs		1	ions Incomplete/l	Jnclear	Part Lost/Mi	ssing	Wrong Stock Pulled
· ·	Cuffs ' Contamination				Mainte			Part Moved						
	Heat Treat Countersink			_	Mislabe			Positioned V		. .				
•	Inspection Strip in Tube Cut Too Short				<u> </u>	Misread			Power Loss/	Surge	Other			
		Ripples in					Drill Holes	<u> </u>	Offset					
		Torque W			n	<u> </u>	Drawing	Out of Calibration						
		Turning Se				<u> </u>	Finish	Out of Sequence						
Wave/Twist in Tube				ı	1	Folio	1	Outside	Dimensions					

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

April-16-13 12:34:54 PM

Work Order ID: 99931

Parent Item:

600.0129

646.4001

Parent Item Name: AS350 Cable Cutter

99931

646 4001

Start Date: 4/16/13

Start Qty: 1.00

Required Date: 4/30/13

Required Qty: 1.00

600.1013 Purchased

646.3910

Purchased

No

Location

ST

Location

ST139A

Location

ST139B

125031

125154

125083

Loc Oty 128 128

Each 945.0000

**

**

12003

Loc Code

128.0000

Loc Code

945 945

Loc Qty

Loc Oty

Each

72.0000

**

Simo

646.3911

Manufactured No

Manufactured

ST139d 93238 50 50 Each

22

22

20.0000

Loc Code

Loc Code

**

13-04-26

Location Loc Qty ST139A 125083 ST139d 19 93362 19

*100		,	
NCR:	Yes	/	No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA:	Date:	•	•

					1						QA Closed	: Date	:
Work Orde	er:	· · · · · ·				DISPOSITION		DEPARTMEN	EPARTMENT/PROCESS				
Part N	lo					Rework Scrap		r	Skid-tube Machining Moforming	Crosstube Small Fab Finishing		Water Jet od. Eng. Coor. ore/Packaging	Engineering Quality Other
NCR N	lo	 				Use-as-is Work Order Update			Large Fab	Composite	Rec/std	Supplier	J
Root				De	scri	ption of work order update	lr	nitial	Act	tion	Sign &		
Cause	Date	Step	Qty		C	or Non-conformance	Chi	ef Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data													
Equip/Tooling													`
Operator													
Material													
Setup													
Other													
Process													
Supplier Training				`		•							
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Landii	ng Gear					General							,
	Bending				Г	Bend	П	Grain			Ovalized	Γ	Pressure/Forced
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	Cracks		,			Broken/Damaged	H,	Inspecti	on Incomplete		Part Incorr	ect	Weld
	Crushed/	Crimped.			Г	Burrs	П	Instruct	ions Incomplete/	Unclear	Part Lost/N	1issing	Wrong Stock Pulled
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l	Ripples in	Bend				Drill Holes		Offset					
ĺ	Torque W	aves in E	xtrusio	n		Drawing		Out of C	Calibration				
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April-16-13 12:34:54 PM

Work Order ID: 99931

Parent Item:

646.4001

Parent Item Name: AS350 Cable Cutter

99931 *646 4001*

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Qty: 1.00

	646.3912
<	*646-3912*
ب	Shim

Manufactured

Manufactured

Purchased

No

Location Loc Oty ST139A 22 125083 22 ST139d 51

93423

125083

93160

Location

ST139B

ST139d

51 Each

Loc Qty

16

16

20

20

48

Each

Each

36.0000

Loc Code

59.0000

73.0000

Loc Code

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78

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NCR:	/es	/ No					WORK ORDER NON-C	Oi	NFORM	/IANCE / UP	DATE	QA Closed:	Date:	
						1	DISPOSITION				AGAINST DE	PARTMENT		
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						Ī	Rework			Skid-tube	Crosstube		Water Jet	Engineering \
Part N	١٥.					1	Scrap		Machining Small Fab			4	d. Eng. Coor.	Quality
							Use-as-is]		noforming	Finishing	Rec/Stor	e/Packaging	Other
NCR N	10.					1	Work Order Update]		Large Fab	Composite		Supplier	*.
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Cause		Date	Step	Qty		,	or Non-conformance	Ch	ief Eng	Desc	ription	Date	Verification	QC Inspector
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		Cracks				-	Broken/Damaged		1	on Incomplete	" -	Part Incorred	 	Weld
		Crushed/0	Crimped.		1	\vdash	Burrs	<u> </u>	1	ions Incomplete/	'Unclear –	Part Lost/Mi	ssing	Wrong Stock Pulled
		Cuffs			1	_	Contamination		Mainte		<u> </u>	Part Moved		
		Heat Trea				\vdash	Countersink	<u></u>	Mislabe		<u> </u>	Positioned V		104-
	_	Inspection	•	Tube	- 1	\vdash	Cut Too Short	<u> </u>	Misread	I	L.	Power Loss/	Surge	Other
		Ripples in			- 1	_	Drill Holes	<u> </u>	Offset				· · · · · · · · · · · · · · · · · · ·	
		Torque W			n	_	Drawing	<u></u>	4	Calibration				
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	Wave/Twist in Tube				- 1		Folio	1	Outside	Dimensions				

DQA:_

Date:

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April-16-13 12:34:54 PM

Work Order ID: 99931

Parent Item:

MS27039-1-16

646.4001

Parent Item Name: AS350 Cable Cutter

Purchased

99931

No

646 4001

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Qty: 1.00

**

70.0000

Loc Code

Location ST306

122993

Loc Qty 70

70

Each

NCD.	Voc	1	Ma
NCR:	Yes	/	No

DQA: _____ Date: ____

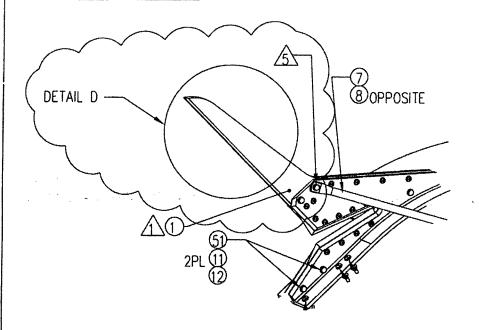
NCR: Yes / No					j	WORK ORDER NON-CONFORMANCE / UPDATE								
												QA Closed:	Date:	
Nork Order:					DISPOSITION			AGAINST DEPARTMENT/PROCESS						
Work Order.				1	Rework	ا ٦		Skid-tube	Crosstube]	Water Jet	Engineering		
Part N	10.						Scrap	1	1	Machining	Small Fab	Pro	d. Eng. Coor.	Quality
				Î	Use-as-is	1	Therm	noforming	Finishing	Rec/Stor	e/Packaging	Other		
NCR No.					Work Order Update]		Large Fab	Composite		Supplier	, ,		
	···			·		<u> </u>			<u> </u>					· · · · · · · · · · · · · · · · · · ·
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Cause		Date	Step	Qty		<u> </u>	or Non-conformance	Ch	ief Eng	Desc	cription	Date	Verification	QC Inspector
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	Crushed/Crimped, Cuffs				Contamination	— —		Maintenance		Part Moved				
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		Inspection		Tube		\vdash	Cut Too Short		Misread		-	Power Loss/	· ·	Other
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Wave/Twist in Tube						•								

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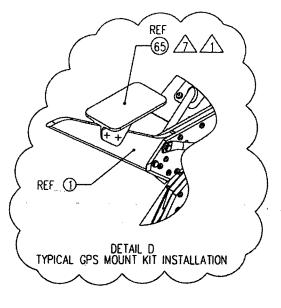
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2004 17500000 80V 6504 610	ENGINEERING	CHANGE NOTICE	ND 0307	9		SHEET 1	JF 1
APICAL	DWG NO. 646	5.4000 REV: A	A PREPARED BY:	N.CAP	DATE: 03/		FECT ON DWG INC. 🖾 UNINC
INDUSTRIES, INC.	DWG TITLE:	AS350 CABLE CU					
	APPROVED BY	P/Bano MFC	DavidBach	ac /l	courseffice	EFFI NEX	T ORDER
TRANSACTION CODES (TC) A-ADD C-CREATE R-REVISE D-DELETE	REASON: CREA	TED FIXED AND			PROVISIOMS	KIT	
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ENGINEERING CHANGE NOTICE NO. 03046 SHEET 1 ΠF . 1 PREPARED BY EFFECT ON DWG REV: A DATE: 01/24/11 DWG NO. 646.4000 J. JACKSON ☐ INC. X UNINC. DWG TITLE: AS350 CABLE CUTTERS KIT INDUSTRIES, INC. MFG Davit Paulon APPROVED BY ENGR Brance NEXT ORDER TRANSACTION CODES (TC):
A-ADD C-CREATE REASON: ADDÉD GPS MQUNT KIT, F/N 65. REVISED DRAWING VIEWS ADDED NOTE /7 R-REVISE D-DELETE SHEET 1, ZONE B1 IS: . AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ONTO F/N 1.

SHEET 2, ZONE A4 IS:



SHEET 2, ZONE B2 IS:

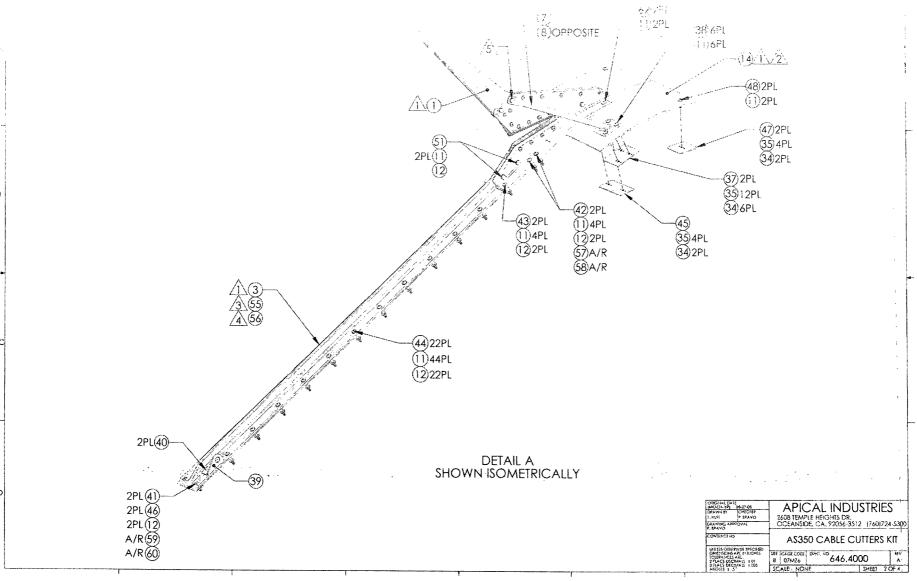


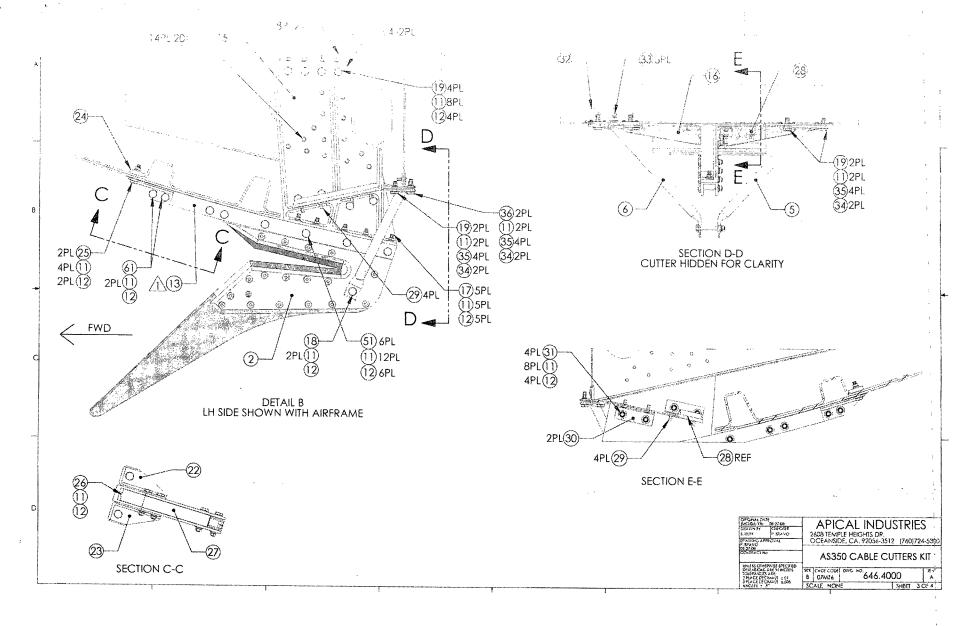
65	Α	647.5701	REF	GPS	S MOUNT KIT	A	
F/N	тс	PART NUMBER	QTY QTY		DESCRIPTION	MATERIAL	SPECIFICATION
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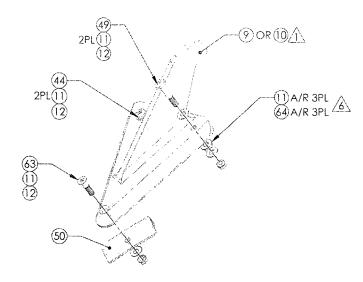
THE STATE OF

The second second NCTE: AFTER INSTALLATION, APPLY FAN 54 AAR TO FILL GAPS AND FILLET LDGES 900 0001 - 400 10 - 400 000 72\ INSTALL F/N 14 WITH F/N 52 8 53 MAGN. 3/3% 52 | 600.0790 MAGNOSOL, s. 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE VENDOR: MCMASTER-CARP P/N 75935A651 50 646.3814 WIPER BRACIET 49 601.2910 SCREW 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE 1APE VENDOR: R.S. HUGHES P/N 021200-24216 2 48 601.1300 2 47 646.3719 2 46 646.3718 1 45 646.3718 SCREW DOUBLER CUSTOM WASHES DOUBLER SCREW REUSE FASIENERS FROM F/N | 2 22 44 601.1948 2 43 601.1948 2 43 601.1952 4 42 601.1952 2 41 601.2853 1 30 601.2853 1 30 601.2853 38522035 1 (9) USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT SCREW SCREW 2502039 (20 44027039-1-01 1.152-569-1554 SCREW RIVET MS20428AD 5.7 39 646.3716 GAUGE BRACKET 38 601,1953 37 646,3715 MS27039-8-13 2 37 646.3715 2 36 601.2824 36 35 601.2277 18 34 600.0795 STRUT DO A143-54 BOLT CCR26455-8-0 HUTPLATE M321062-3 3 33 601.2565 MS20470AD5-7 1 32 646.3813 DETAIL A 4 31 601.2822 BOLT AN3-34. 2 30 646.3812 8 29 601,2564 GUSSET BRACKET MS20470#05-6 RIVET 1 28 646.3714 GUSSET 27 646.3610 1 26 601,2830 2 25 601,2825 SCREW M\$24694555 DETAIL C BOLY ANS-6A 24 646.3811 23 646.3712 RADIUS BLOCK CLIP 22 646,3711 21 601,2832 1.520400405 5.5 20 601,2020 19 601,2823 CR3213-5-3 BOLT AND-44 18 501,2827 17 601,2912 BOLT SCREW AN3-13A 646.4002-M\$24694551 1 6 646.3713 GUSSE 15 646.3210 14 646.3710 13 646.3110 SUPPORT DOUBLER 13 646.3110 12 601.1624 646.4001 6 63 LOCKNUT M\$21042i3 16 134 11 601,1607 WASHER 10 646,3411 9 646,3410 RH WIPER DEFLECTOR -DETAIL B UH WIPER DEFLECTOR 8 646.3513 7 646.3512 STRUT STRU 6 646.351 5 646.351 64 601,3151 WASHER NAS114910360F 601.2911 SCREW MS24694353 4 646.381 BRACKE 62 601.2637 SCREW MS27039-1-16 1 646.2910 DEFLECTOR 6) 601.2763 BOLT ANS 12A LOWER CUTTER ASSY 1 2 646.3001 60 646.3913 59 646.3912 MAINS 646,3301 UPPER CUTTER ASSY 4_ SHIM ASSSO WIPER DEFLECTOR KE 646.4002 1 58 646.3911 58 FIND # PAR! # SHIM ASSEC CABLE CUFFERS KIT MATE 400 KU FIND # PART# DESCRIPTION QTY APICAL INDUSTRIES NEXT ASSY (S) C8-2F 68 CRECKER P. 6RAYO DRAWNEY S. HUT! 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300 DEAVAIC APPONAL CONTRACT NO AS350 CABLE CUTTERS KIT B DZMZ6 646,4000 SHEET 1 OF 4 SCALE NONE

 $(x_1, \dots, x_n) = (x_1, \dots, x_n) + (x_1, \dots, x_n$







DETAIL C LH SHOWN EXPLODED RH OPPOSITE

1. Approving National Aviation 3. Form Tracking Number: Page 1 of 3 Authority/Country: **AUTHORIZED RELEASE CERTIFICATE** MG13-078 **FAA/UNITED STATES** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG 4. Organization Name and Address: 5. Work Order/Contract/Invoice Number: Apical Industries, Inc. Shipper # 12443 2608 Temple Heights Drive PO1886NM P.O. # AS350-CCK/PO19331 Oceanside, CA 92056 Item: 6. 7. Description: 8. Part Number: Eligibility: * Quantity: 11. Serial/Batch Number: Status/Work: **Upper Cutter Assy** 646,3301 N/A 16 119640-3 New 2. **Lower Cutter Assy** 646.3001 20 119737-1 3. Deflector 646.2910 17 119572-1 Doubler 646.3710 113434-1 **Strut Doubler** 646.3715 114916-7 Gusset 646,3714 113434-3 **Doubler** 646,3715 113434-4 Shim 646.3911 113080-5 Gusset 646.3713 113434-2 10. **Bracket** 646.3810 113012-4 11. Support 646.3210 114263-3 12. Gusset Bracket ---**-**646.3812.⇒ 113579-1_ 13. Strut Bracket 646.3813 112165-3 Shim 646.3910 26 114916-5 Shim 15. 646.3912 26 114916-6 16. Channel 646,3110 118257-8 13. Remarks: EXPORT AIRWORTHINESS APPROVAL A. These parts listed in Block 7. are subcomponents of a PMA Article B. Bilaterial Agreement - None C. Items are being shipped to Dart Aerospace Ltd. in Hawkesbury, ON, Canada. D. Last item entered.... 14. Certifies the items identified above were manufactured in conformity to: Approved design data and are in condition for safe operation ☐ Non-approved design data specified in Block 13. 15. Authorized Signature 16. Approved/Authorization No.: **DMIR 606259-NM** 17. Name (Typed or Printed): 18. Date (m/d/y): Lisa Mansfield March 18, 2013 User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different that the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the

*Installer must cross-check eligibility with applicable technical data.

NSN: 0052-00-012-9005

user/installer before the aircraft may be flown.

FAA Form 8130-3(6-01)

1. Approving National Aviation 2.	3. Form Track	3. Form Tracking Number: Page 3 of 3			
	AUTHORIZE				
FAA/UNITED STATES	FAA Form 8130-3	, AIRWORTHINES	S APPROVAL TA	AG	
4. Organization Name and Address: Apical Industries, Inc. 2608 Temple Heights Drive Oceanside, CA 92056	PQ1886N	M		Shipper # 1244	/Contract/Invoice Number: 3 CCK / OD 1933
6. Item: 7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
33. Rivet 34. LH Wiper Deflector 35. AS350 Wiper deflector Kit RH Wiper Deflector Wiper Bracket 13. Remarks: EXPORT AIRWORTHIN	601.2831 646.3410 646.4002 646.3411 ±646.3814	N/A	604 15 4 16 -45	76557-10, 107245-7, 115478-4 110777-1 031, 032, 033, 034 118480-1 	New
C. Items are being shiD. Last item entered	pped to Dart Aerospace I	.td. in Hawkesbury, C	N, Canada.		•••••••••••••••••••••••••••••••••••••••
14. Certifies the items identified above v	were manufactured in confo	rmity to:	100		1.34.4
Approved design data and are i					Z.
Non-approved design data spec	ified in Block 13.				
15. Authorized Signature:	16. Approved/Authoriza	ation No.:			and the second s
17. Name (Typed or Printed):	DMIR 606259-NM 18. Date (m/d/y):				
Lisa Mansfield					
Lisa mansheu	March 18, 2013	User/Installer Respo	onsibilities		
It is important to understand that the exi		· .		to install the part/component/s	assembly.
Where the user/installer performs work i specified in Block 1, it is essential that the country specified in Block 1.	n accordance with the natio	nal regulations of an air	worthiness authority	different that the airworthines	s authority of the country
Statements in Blocks 14 and 19 do not co accordance with the national regulations	nstitute installation certifica by the user/installer before	tion. In all cases, aircra the aircraft may be flow	ft maintenance record	ds must contain an installation	certification issued in

1. Approving National Aviation 3. Form Tracking Number: Page 2 of 3 Authority/Country: **AUTHORIZED RELEASE CERTIFICATE** MG13-078 FAA/UNITED STATES FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG 4. Organization Name and Address: 5. Work Order/Contract/Invoice Number: Apical Industries, Inc. **Shipper # 12443** 2608 Temple Heights Drive PO1886NM P.O. # AS350-CCK/06 (933) Oceanside, CA 92056 6. Item: 7. Description: Part Number: 8. Eligibility: * 10. Quantity: 11. Serial/Batch Number: Status/Work: Strut #646:3512 -----N/A_ 111971-3 New 18. Doubler 646,3719 24 117341-6 19. Strut 646.3510 14 117341-2 20. Strut 646,3511 14 117341-3 21. Clip 646.3711 13 117341-1 Clip 646.3712 13 117341-4 23. **Custom Washer** 646.3718 27 117341-5 24. **Gauge Bracket** 646.3716 15 117953-1 25. Filler 646.3610 17 115914-2 26. Shim 646.3913 17 117953-2 27. Radius Block 646.3811 20 117651-1 28. Strut 646.3513 35 11971-1, 115105-1, 115741-3 29. Bolt 601.2825 192 107245-1, 119183-2 30. Bolt 601.2827 69 106824-1, 114455-1 31. Bolt 601.2763 206 41764-3, 46468-1 32. Screw 601.2830 149 41769-8, 107245-8 13. Remarks: EXPORT AIRWORTHINESS APPROVAL A. These parts listed in Block 7. are subcomponents of a PMA Article B. Bilaterial Agreement - None C. Items are being shipped to Dart Aerospace Ltd. in Hawkesbury, ON, Canada. D. Last item entered..... 14. Certifies the items identified above were manufactured in conformity to: Approved design data and are in condition for safe operation Non-approved design data specified in Block 13. 15. Authorized Signature: 16. Approved/Authorization No.: **DMIR 606259-NM** 17. Name (Typed or Printed): 18. Date (m/d/y): Lisa Mansfield March 18, 2013 User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different that the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

FAA Form 8130-3(6-01)

user/installer before the aircraft may be flown.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the

- ·	ENGINEERING CHANGE	NOTICE NO 030)79	SHEE	T 1 JF 1
APICAL	DWG NO. 646,4000		RED N.CAP	DATE: 03/21/11	EFFECT ON DWG
INDUSTRIES, INC.	DWG TITLE: AS350 C		T	.A.	1110, 65 01110
moornaa, mo	APPROVED BY	MFG Davit By	ac //	must fera EFFI	NEXT ORDER
TRANSACTION CODES (TC) A-ADD C-CREATE R-REVISE D-DELETE	REASON CREATED FIX			ROVISIONS KIT	
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			2	37 646.37/5 STRUT DOUBLER 3 36 601.2224 BULT 37 600.79% NUTPLATE 38 601.2277 RIVET 39 600.79% NUTPLATE 30 601.25% RIVET 32 646.38/3 STRUT BRACKET 31 601.25% RIVET 32 646.38/3 STRUT BRACKET 30 646.38/3 GUSSET BRACKET 31 601.25% RIVET 32 646.38/3 GUSSET BRACKET 32 646.38/3 GUSSET BRACKET 33 646.38/3 GUSSET BRACKET 34 646.38/3 GUSSET 35 661.28/3 SCREV 36 661.28/3 SCREV 37 646.38/3 RANUS BLOCK 37 646.38/3 CUP	- NO-54 7, 2006-03-5-40 // NO-54 7, 2007-03-7 23-174-03-7 23-174-03-7 23-174-03-6 7, 2007-04-5-5
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DOCUMENTS EFFECTED:	⊠ MDL ⊠ INSTAL	L INSTRUC 🛛 ICA	CHANGE CA	TEGORY DER REVIEW	/ REQUIRED